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 Masaru Kogure
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CATHEY II, PATRICK H

ART UNIT PAPER NUMBER

2613

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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Office Action Summary	09/902,576	KOGURE ET AL.	
	Examiner	Art Unit	
	Patrick H. Cathey II	2613	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence addre	SS
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATIO  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a  - If NO period for reply is specified above, the maximum statutory per  - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a reply within the statutory minimum of thi riod will apply and will expire SIX (6) MOI atute, cause the application to become A	reply be timely filed  rty (30) days will be considered timely.  NTHS from the mailing date of this comm  BANDONED (35 U.S.C. § 133).	iunication.
Status			
1) Responsive to communication(s) filed on	•		
· · · · · · · · · · · · · · · · · · ·	This action is non-final.		
3) Since this application is in condition for allo	wance except for formal mat	ters, prosecution as to the m	erits is
closed in accordance with the practice unde			
Disposition of Claims			
4)⊠ Claim(s) <u>1-12</u> is/are pending in the applicat	ion.		
4a) Of the above claim(s) is/are without			
5) Claim(s) is/are allowed.			
6) Claim(s) 1,2 and 4-9 is/are rejected.			
7) Claim(s) 3 and 10-12 is/are objected to.			
8) Claim(s) are subject to restriction an	d/or election requirement.		
Application Papers			
9) The specification is objected to by the Exam	niner.		
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.			
Applicant may not request that any objection to			
Replacement drawing sheet(s) including the cor			1.121(d).
11) The oath or declaration is objected to by the			
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:  1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International But * See the attached detailed Office action for a	nents have been received.  nents have been received in a  priority documents have been  reau (PCT Rule 17.2(a)).	Application No n received in this National Sta	age
Attachment(s)			
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> </ol>		Summary (PTO-413) (s)/Mail Date	
<ul> <li>2) ☐ Notice of Draftsperson's Patent Drawing Review (P10-948)</li> <li>3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB Paper No(s)/Mail Date 10.</li> </ul>	,	Informal Patent Application (PTO-15	52)

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## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim's 1, 4, 6, 8 and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Saneyoshi et al. (US 5,410,346).

As for Claim 1, Saneyoshi et al. teaches that the optical system (10) for taking images is in the front view of the vehicle (Column 2, lines 46-47; see also figures 1 and 2). He also teaches a calculating method for the brightness data of the image (Column 9, lines 53-63). He then shows that if there is a fail occurring then a fail-safe measure, or a warning, would take place (Column 7, lines 33-39).

As for Claim 4, Saneyoshi et al. teaches that the maximum value is indicated (Column 29, line 64 to Column 30, line 4).

As for Claim 6, Saneyoshi et al. teaches that the edges are within the predetermined values (Column 12, lines 42-54).

As for Claim 8, Saneyoshi et al. teaches calculating the distance between the car and the object (Column 7, lines 52-62).

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As for Claim 9, Saneyoshi et al. teaches the monitoring section is set on the upper section of the image where the vehicle ahead is located (Column 13, lines 37-45).

#### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim's 2 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saneyoshi et al. in view of Yasui et al. (US 6,091,833).

Most of the limitations for this claim have been addressed above in claim

1. As for Claim 2, Saneyoshi et al. fails to teach that the data indicates a
horizontal distribution on the image, but Yasui et al. does (Column 10, lines 5565). Since Yasui's et al. system will allow for guide detection of lanes, it would
have been obvious for one of ordinary skill to have the data indicate a horizontal
distribution on the image.

Most of the limitations for this claim have been addressed above in claim's 1 and 6. As for Claim 7, Saneyoshi et al. fails to teach that the number of data is the number of edges, but Yasui et al. does (Column 21, lines 43-50). Since the data is the number of the edges in this case, it would have been obvious for one of ordinary skill to make the number of data the number of edges.

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Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Saneyoshi et al. in view of Yasui et al. and further in view of Stam et al. (US 6,587,573).

Most of the limitations for this claim have been addressed above in claim's 1 and 2. As for Claim 5, Saneyoshi et al. fails to teach that the characteristic value included the variance on the image, but Stam et al. does (Column 47, lines 8-31). Since the variance provides critical information regarding the outside conditions of the road, it would be obvious for one of ordinary skill to include the value of the variance on the image.

### Allowable Subject Matter

Claim's 3 and 10-12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Pruksch et al. (US 5,955,941) teaches a fail-safe method if lights are blinding the driver. Ishikawa et al. (US 6,549,124) teaches a method of detecting an approaching vehicle and giving off an alarm if the vehicle violates predetermined values. David (US 4,833,469) teaches a system that warns the

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driver if there is an obstacle present. Akita (US 6,282,478) teaches fail-safe methods when vehicles or obstacles are in danger to the driver.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patrick H. Cathey II whose telephone number is (703) 305-4909. The examiner can normally be reached on M-F 7:30 to 5:00 (Every other friday off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris Kelley can be reached on (703) 503-4856. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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PHC II

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